**Ramesh Khanal**

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**Key Skills**

**Engineering Construction Technician 08/21/2017-Till Now**

Geo Concepts Engineering/Terracon, Virginia

*An Organization that provides professional geotechnical engineering, hydrogeological, and environmental consulting services to private and public sector clients throughout the Washington Metropolitan Region.*

* Inspected the ongoing construction sites for their grading, drainage, erosion and sediment control measures to confirm the approved design and county regulations
* Carried out inspection of steel reinforcement works for compliance with the approved construction drawings, specifications, and codes and guidelines including ASTM, ACI, CRSI, International Building Code and VA USBC.
* Received and checked Concrete Batch Tickets for each batch of concrete delivered to the site and checked for their quality requirements as per the approved specification and ASTM and ACI guidelines.
* Supervised concrete testing and sampling works for temperature, slump and air pressure done by field technicians and made immediate decisions of going ahead or not based on the test results.
* Observed the cocncrete pouring work till its completion while checking the compliance with approved formwork requirements and approved method of vibration.
* Prepared and submitted daily concrete works completion report incorporating details of location of concreting works, steel reinforcement and formwork observation, and reported on non-compliances found.

**Engineering Field Technician** **05/18/2016 –08/18/2017**

**ECS Limited, Chantilly, Virginia**

*An Organization aimed at raising the standards of professional consulting engineering by hiring industry professionals who understood the complexities of building and maintaining modern infrastructures.*

* Inspected various ongoing construction sites for the grading, drainage, erosion and sediment control measures to confirm the approved design and county regulations
* Attended pre-construction meeting and the subsequent periodical evaluation meetings regarding the implementation of erosion and sedimentation control measures
* Studied approved plans and specifications of the project site and corresponding codes, manuals and guidelines of ASTM, ACI , CRSI and International Building Code
* Studied Geotechnical Report and computations for the project site and carried out testing of soil bearing capacity and soil compaction for foundation works (DCP and Nuclear Gauge) to meet the requirements of Optimum Moisture Content and Maximum Dry Density.
* Received Concrete Batch Tickets for each batch of concrete delivered to the site and checked its batching time, quality requirements, admixtures added as per the approved specification
* Carried out concrete tests for temperature, slump and air entrainment and made concrete cylinder samples
* Observed and measured the stretching of post-tensioned reinforcement bars in beams and slabs to meet the requirement of approved specifications and drawings
* Observed construction works of CMU Masonry Walls, checked for clean outs and prepared mortar and grout samples.
* Checked Steel Reinforcement Bars as per the approved drawing and specifications for their placing, end and side covers, binding, support bars, cleanliness, dowels, epoxy insertion and formwork

**Project Manager** **08/15/2015 - 05/17/2016**

**Relux Homes, McLean, Virginia**

*A builder company dedicated to construct custom-built homes offering unique architectural plans, mostly known for its quick construction completion without compromising in their quality of workmanship*

* Inspected the site construction and improvement to ensure that the construction is in conformance with county standards, land development regulations, and applicable building codes.
* Monitored the implementation of Grading Plan, erosion and sediment (E&S) control plan, stormwater management plan, drinking water and sanitary sewer lines, apurtenant fixtures and connections
* Monitored the implementation of stormwater outfall channels, evaluated their adequacy and provided channel protection when needed.
* Read and interpreted construction drawings and site related plans.
* Planned, managed and monitored site construction activities of residential building construction and rennovation works
* Made plans of material, manpower and equipment reqirements for the upcoming weeks so as to ensure smooth and efficient construction works
* Made quantity estimates of materials as per the design and drawings, asked for quotes of material required, approved the purchases and accepted the deliveries at site.
* Made quality control and surveillence of the construction activities so as to ensure compliance with local, national and international codes of practice

**Civil Engineer** **05/15/2013 - 06/15/2015**

**SMEC Nepal, Kathmandu, Nepal**

*An International organization that delivers high quality technical services for the lifecycle of a project and provides consultancy services to a broad range of sectors.*

* Carried out hydrological analysis of the watershed to calculate peak discharges and optimum reservoir capacity.
* Performed hydraulic design of sediment basins, forebays, ponds, pipes and hydropower tunnels to confirm national guidelines for hydropower projects.
* Designed and inspected channel and flood protection measures that include structural (riprap), vegetative (lining) and managerial methods
* Prepared contract documents involving all stakeholders for the construction surveillance of Hydroelectric Project.
* Verified construction activities as per the provided designs and specifications and inspected the quality of material and works.
* Prepared daily, weekly and monthly progress reports and verified Contractor’s payment claim.
* Organized site coordination meetings and prepared meeting minutes.

**Civil Engineer** **09/01/2009 - 04/30/2013**

**ERMC Nepal, Kathmandu, Nepal**

*A Nepal based engineering consulting firm working in different sectors of design, construction and social and environmental works*

* Actively involved in survey, feasibility study, detailed engineering and design, drafting, calculations, cost estimates and technical specifications for Water Supply projects.
* Assisted the project engineer in design, calculations prepared drawings of intake structures, service reservoirs, treatment plants, pipes and other hydraulic structures.
* Actively involved in bid preparation, contract document preparation, contract negotiation and construction document preparation.
* Performed field inspection and ensured that construction work compiled with design, drawings, local codes and regulations applicable.
* Helped the project engineer to prepare project status report and budget update report.
* Issued written notices to the Water Users’ Groups, Individual Residential Home Owners and Contractors regarding their violence of environmental laws and regulations during the construction works.

**Engineer** **09/01/2007 - 08/31/2009**

**ITECO Nepal, Kathmandu, Nepal**

*A leading engineering consulting company in Nepal providing diverse range of services in engineering sector through latest and cutting edge technology.*

* Worked in Kathmandu Head Office with frequent site visits of the project sites
* Prepared hydrological report of each projects after detailed hydrological analysis of the catchment area of the Project Area in order to confirm the Design Discharge and Design Flood.
* Prepared of Feasibility Study Reports of three hydropower projects ranging from the installed capacities ranging from 4 megawatts to 200 megawtts located in Nepal
* As a team member of the work, prepared designs and drawings of the various civil component structures using AutoCAD
* Made detailed quantity and cost estimate to make financial analysis of the project.
* Prepared hydrological report of each projects after detailed hydrological analysis of the catchment area of the Project Area in order to confirm the Design Discharge and Design Flood.
* Finalized the Feasibility Study reports summing up the inputs from Hydrologist, Hydraulic Designer, Geologist, Financial Analyst and other experts.

**Trainee Water Resource Engineer** **10/24/2005 - 07/31/2007**

**Laboratory of Hydraulic Constructions (LCH), Lausanne, Switzerland**

*A Hydraulic Engineering research organization of Swiss Federal Institute of Technology Lausanne (EPFL).*

* Carried out comprehensive literature review of journals and books in English and French to delve into the researcher’s requirements before kicking out the experimental studies.
* Carried out model experimental works of hydraulic structures including measurement of discharge in open channel and flumes using calibrated weirs, hand-held flow meters, model study of spillways, river training and flood protections works, sedimentation in dams and lakes.
* As a main part of university course, carried out a hydraulic model study on “Experimental Study of Outlet Discharge Regulator of Retention Works” and submitted the dissertation report to the University, working under the leadership of Professor Anton Schleiss, Director of LCH and Professor Jean Louis Boillat.

**SKILLS**

* MS Office, MS Project Manager, AutoCAD (2D), Adobe (Photoshop, Acrobat), PowerPoint (All excellent), HEC-RAS (Fair)

**EDUCATION**

**Master of Science (MS), Water Resources Management and Engineering, 07/31/2007**

EPFL, Switzerland,

Bachelor of Engineering (BE) **Civil Engineering September, 1999**

Tribhuvan University, Nepal

**PROFESSIONAL DEVELOPMENT/AFFILIATIONS**

* **WACEL Soil,** Chantilly, Virginia, 05/31/2016
* **WACEL Foundation Basics,** Chantilly, Virginia, 07/31/2016
* **WACEL Concrete I,** Chantilly, Virginia, 05/10/2016
* **WACEL Concrete II,** Chantilly, Virginia, 10/25/2016
* **WACEL Concrete III,** Chantilly, Virginia, 12/22/2016
* **VDOT Soil and Aggregate,** Fairfax, Virginia 06/26/2018

**TRAININGS**

One day training on **“Scour of Rocks downstream of Dams”** by George W. Annandale, Program Leader of Golder Associates (USA), and jointly organized by Hydro Lab Nepal (P) Ltd and Nepal Hydropower Association (NHE) on 10 May 2011.

**OSHA Construction Safety Training classes, at ECS**

**Nuclear Gauge Safety Training, at ECS**